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INVESTIGATION OF PROTOTYPE VOLCANO-SURVEILLANCE NETWORK

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1 November 1972

Type I Progress Report for Period 1 September 1972 to 31 October 1972

Prepared for:

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Type I Progress Report

ERTS-A

a. Title: Investigation of prototype volcano-surveillance network

ERTS-A Proposal No.: 145

b. GSFC ID No. of P.I.: IN 384

c. Problems: Fieldwork was impeded by bad weather typical in Alaska and the Cascades at this time of year. The result was slightly increased fieldwork expenditures. Bad weather in Alaska forced the field program to be cut short. Two antennas became defective because of poor solder joints; these were repaired. Two programmer cards and two transmitter cards in the DCP's failed and are being replaced through Duane Preble in Mississippi.

d. Accomplishments: Event counters with DCP's were installed on Mts. Lassen, Rainier, St. Helens, and Mt. Baker in the Cascades and Mt. St. Augustine and Iliamna in Alaska. Iliamna was chosen when bad weather made it impossible to reach Mt. Redoubt or Spurr as planned. The tiltmeter on Lassen was replaced after it was destroyed by lightning.

e. Scientific results: None yet. Category 3C.

f. Papers or reports: None yet.

g. Recommendations: Next time, please fund programs requiring significant fieldwork early enough [so] that reliable equipment can be developed and the DCP's can be installed before or soon after launch. We will probably not complete installation until 8 months after launch.

h. Changes in Standing order forms: None.

i. ERTS Image description forms: None.

k. Status of DCP's presently reporting:

<u>DCP Serial No.</u>	<u>State</u>	<u>County</u>	<u>Town</u>	<u>Lati- tude</u>	<u>Longi- tude</u>
6005	Washington	Skamania	Mt. St. Helena	47.75N	122.40W
6057	California	Shasta	Mt. Lassen	40.48N	121.51W
6066	Washington	Whatcom	Mt. Baker	48.78N	121.90W
6163	California	Shasta	Mt. Lassen	40.48N	121.51W

k. Continued:

<u>DCP</u> <u>Serial No.</u>	<u>State</u>	<u>County</u>	<u>Town</u>	<u>Lati-</u> <u>tude</u>	<u>Longi-</u> <u>tude</u>
6334	Washington	Pierce	Mt. Rainier	46.94N	121.67W
6342	Alaska	-	Mt. Iliamna	60.18N	152.82W
6365	Alaska	-	Mt. St. Augustine	59.37N	153.35W
6162	Have been used sporadically for testing.				
6213					
6315					
6370					